9.1- Parabola WS Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ per \_\_\_\_\_ date\_\_\_\_\_

For 1-8, Find the equation of the parabola described. Find that two points that define the latus rectum points.

1. Focus: (4, 0); vertex ( 0,0) 2. Focus: (0,-3); vertex (0,0)

3. Focus: (-2, 0); directrix: x=2 4. directrix: y = -; vertex (0,0)

5. vertex: (2,-3); focus: (2,-5) 6. vertex: (0,0); axis of symmetry: y-axis

passing through the point (2,3)

7. focus: (-3,4); directrix: y=2 8. focus: (-3,-2); directrix: x=1

For 9-16, Find the vertex, focus, directrix and latus rectum points for each parabola.

9. 10.

11. 12.

13. 14.

15. 16.